

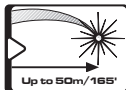


# PROLASER® 5-DOTS GREEN Self-leveling Laser Pointer Model No. 896G

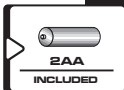
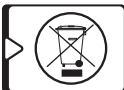
## User Manual



scan for other languages



Up to 50m/165'





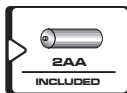
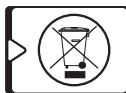
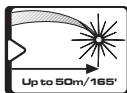
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Thank you for purchasing Kapro's 896G 5-DOTS GREEN self levelling laser pointer. You now own one of the most advanced laser tools available. This manual will show you how to get the most out of your laser tool.

## APPLICATIONS

The 896G 5-DOTS GREEN self levelling laser pointer may be used for:

- Wall stud layout and partition installation
- Electrical outlet and switch layout
- Framing rooms, doors and windows
- Carpentry
- Transferring points
- Vertical and horizontal alignments



### NOTE

**Keep this user manual for future reference.**

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## FEATURES

- Five highly visible laser dots: Plumb up & down, 3 level dots at 90° angles
- Small cross projected at each laser dot
- Self leveling range  $\pm 3.5^\circ$
- Tough rubber overlay
- Quick & easy operation
- Laser range: up to 65'/20m and 165'/50m with a detector
- Includes: Magnetic multi-functional bracket, laser target, soft carry case, "VELCRO" strip, 2 AA batteries

### NOTE

**This device contains precision components that are sensitive to external shock, impact or falls which may compromise its functionality –handle with care to maintain its accuracy.**

## SAFETY INSTRUCTIONS



### WARNING

**This product emits radiation that is classified  
As class II according to EN 60825 -1**

The laser radiation can cause serious eye injury



- Do not stare into the laser beam
- Do not position the laser beam so that it unintentionally blinds you or others.
- Do not operate the laser level near children or let children operate the laser level.
- Do not look into a laser beam using magnifying optical devices such as binoculars or a telescope, as this will increase the level of eye injury.



**WARNING:** This product contains lead in solder and certain Electrical parts contain chemicals which are known to the State of California to cause cancer, birth defects or other Reproductive harm.

(California Health & Safety Code Section 25249.6- Proposition 65)



### NOTE

**Green goggles are intended to enhance the visibility of the laser beam. They will not protect your eyes against laser radiation.**



## BATTERY INSTALLATION & SAFETY

1. Open the battery cover by sliding cover according to the arrow.
2. Insert 2 new rechargeable AA batteries of the same brand, according to the polarity marked inside the battery compartment.
3. Slide the battery cover back in place.



### NOTE

**If the laser level will not be used for a long period of time, remove the batteries from the battery compartment. This will prevent batteries from leaking and corrosion damage.**

## OPERATING INSTRUCTIONS

To get the most out of your Prolaser® 896G 5-DOTS GREEN self levelling Laser Pointer, please adhere carefully to the following instructions.

1. Turn on the laser level by sliding the locking switch. The level will project five laser dots.
2. If the unit is out of leveling range ( $\pm 3.5^\circ$ ), the laser dots will blink. Adjust the units level until blinking ceases.
3. The laser level's pulse mode is constantly engaged and suitable for use with a laser detector on ranges up to 165'/50m indoor.

### NOTE

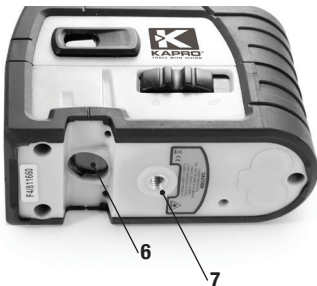
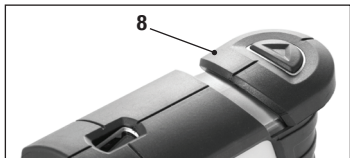
**Avoid setting up the laser level near heavy machinery or sources of vibration that may adversely affect the leveling of the laser.**



## OVERVIEW

### Laser Unit

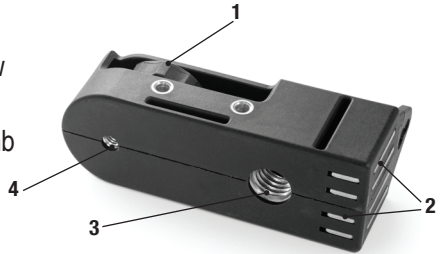
1. Laser output window (plumb up)
2. Laser output window (right)
3. Laser output window (front)
4. Laser output window (left)
5. ON / OFF and pendulum locking switch.
6. Laser output window (plumb down)
7. ¼" tripod thread
8. Battery cover





## Multifunctional base

1. Fine adjustment screw
2. Rare-earth magnets
3.  $\frac{5}{8}$ " tripod thread/ plumb down dot opening
4.  $\frac{1}{4}$ " tripod thread
5. Mount
6.  $\frac{1}{4}$ " screw
7. Grooves for strap





## MAINTENANCE

- Store in a clean, dry place, between -4°F - 140°F (-20° C +60° C)
- Before moving or transporting the unit, ensure that it is turned off and the pendulum is locked.
- If the laser level is exposed to water, dry it before returning it to the carrying case to prevent corrosion damage.
- To maintain the accuracy of your project, check the accuracy of your laser level according to the field calibration tests procedures.
- Change the batteries when the laser beams begin to dim.
- Wipe the aperture lens and the body of the laser level with a clean soft lint-free cloth. Do not use solvents.
- Do not store in dusty places
- If the laser unit is exposed to water, dry it with a dry cloth. Do not return the laser to the carrying case until completely dry, to prevent corrosion damage.
- Do not attempt to dry the laser unit with fire or with an electric dryer.
- Do not drop the laser unit, avoid rough treatment and vibrations.
- Remove batteries from the laser unit when unit is idle for a lengthy period of time and store in carrying case.
- Ensure that the laser unit is turned off before removing batteries.

### Repairs

- See the Warranty section at the end of this manual.
- Do not take the Prolaser® 896G 5-DOTS GREEN Laser Pointer apart or permit any unqualified person to take the laser unit apart. Unauthorized servicing may cause bodily injury, irreparably damage the laser unit and invalidate the warranty.

## FIELD CALIBRATION TEST

The laser unit leaves the factory fully calibrated. Kapro recommends that the laser pointer be checked regularly especially if the unit has been dropped or mishandled.

### Checking accuracy – Plumb dots

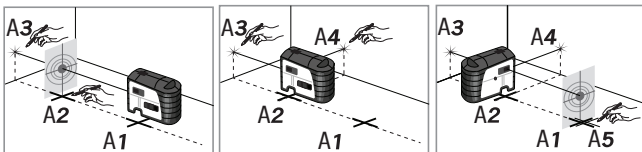
1. Turn the laser pointer ON.
2. Place the unit on a tripod, at approximately 1m above the floor and 3.5m from the ceiling.
3. Mark the Plumb Up and Plumb Down points on the ceiling and floor.
4. Rotate the unit 180° and align the Plumb Down point with the mark on the floor.
5. Mark the Plumb Up point on the ceiling.
6. Measure the distance between the two marks on the ceiling. If the distance is less than or equal to 3mm, then the unit is calibrated.

### Checking accuracy – Level dots

1. Set-up the unit in a place with two walls, at a distance of approximately 5m from each other.
2. Set-up the unit between the two walls, at about 0.5m from one of the walls
3. Mark the position of the laser dot on one of the walls (A1).
4. Rotate the unit 180° and mark this dot on the opposite wall (A2).
5. Move the unit to a distance of about 0.5m from the second wall, rotate to face the first wall and mark the position of the same laser dot (B1).
6. Rotate the unit 180° and mark a the position of the dot on the opposite wall (B2).
7. Measure the differences between vertical positions of the dots: (A1-B1) and (A2-B2).  
Calculate the following difference:  $(A1-B1) - (A2-B2)$   
If the difference is less than or equal to  $\pm 3\text{mm}$ , then the unit is calibrated.
8. You can check each level dot in the same manner.

## Checking square (Accuracy of 90° angle between the level beams)

1. Use a room that is at least 5 meters long. Mark a point (A1) on the floor near the wall at one end of the room.
2. Set up the laser so that its down beam is over point A1. Make sure the front level beam points toward the far wall of the room.
3. Mark a dot at the center of the room using the target and transfer the dot location to the floor (A2).
4. Mark a dot on the far wall (A3).
5. Set up the laser so that its down beam is over point A2 and the front level beam points to the A3 mark.
6. Mark the location of the square beam (A4) on the side wall.  
**Note:** To ensure accuracy, the distances from A1 to A2, A2 to A3, and A2 to A4 should be equal.
7. Turn the unit 90° so that the front level beam aligns with point A4, while down beam is still over point A2.
8. Mark the location of the square beam on the wall and transfer its location onto the floor (A5) as close as possible to point A1.
9. Measure the distance between points A1 and A5. If the distance is less than or equal to 3mm (while the distance from A2 to A1, A3, A4 is approximately 2.5 m), then the unit is calibrated.
10. You can check the angle to the other square level dot in the same manner.



## SPECIFICATIONS

Laser beam output pattern	Five dots: Plumb up, plumb down, 3 level dots at 90° angles (front, right, left)
Accuracy	<ul style="list-style-type: none"><li>• Level dots: 0.0003 in/in (0.3 mm/m)</li><li>• Plumb dots: 0.0003 in/in (0.3 mm/m)</li><li>• Square : 0.00045 in/in (0.45 mm/m)</li></ul>
Self-leveling Range	3.5°±0.5°
Laser range	<ul style="list-style-type: none"><li>• Indoor: 65'/20m</li><li>• Outdoor: up to 165'/50m with detector</li></ul>
Operating temp	14°F - 113°F (-10° C +45° C)
Storage temp	-4°F - 140°F (-20° C +60° C)
Power supply	2 x "AA" batteries
Weight	360 g with batteries
Dimensions (L x W x H)	4.5" x 3.5" x 1.8" 115mm x 90mm x46mm
Water & dust proof	IP54
Laser Classification	Class II, <1mW
Wavelength	510 ±10nm



## WARRANTY

This product is covered by a two-year limited warranty against defects in materials and workmanship. The warranty does not cover products that are used improperly, altered or repaired without Kapro Tools' approval. In the event of a problem with the laser level, please return the product to the place of purchase with proof of purchase.

Model #896G

The serial number sticker is positioned on the bottom of the product.

### **CE CONFORMITY CERTIFICATE**

This product meets the standards of the Electromagnetic Compatibility (EMC) established by the European Directive 2014/30/EU and the Low Voltage Directive (LVD) 2014/35/EU

### **EC DECLARATION OF CONFORMITY**

We declare under our responsibility that the product 896G is in accordance with the requirements of the Community Directives and Regulations:

2014/30/EU

2011/65/EU

EN60825-1: 2014

EN61326-1: 2013



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